

VISUALIZE A COUNTER REPORT

BrightTalk: Library Connect
November 16, 2017

Dudee Chiang, Jet Propulsion Laboratory Library
California Institute Of Technology

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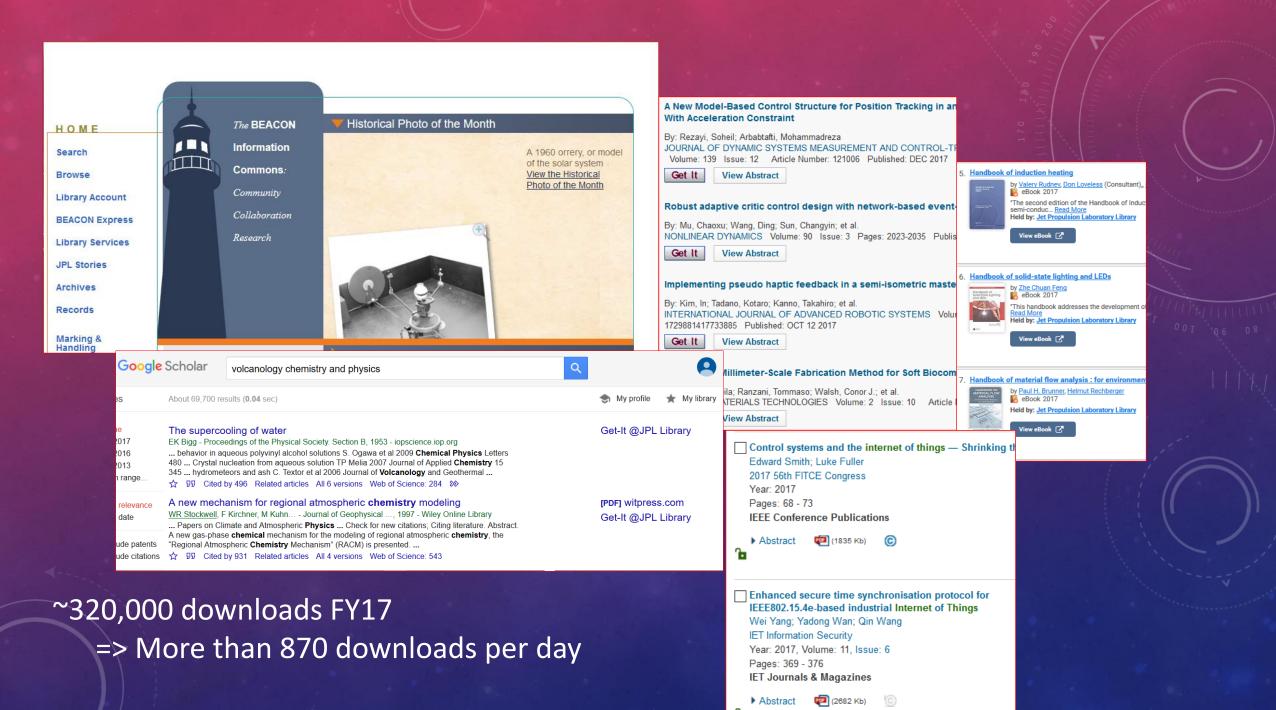
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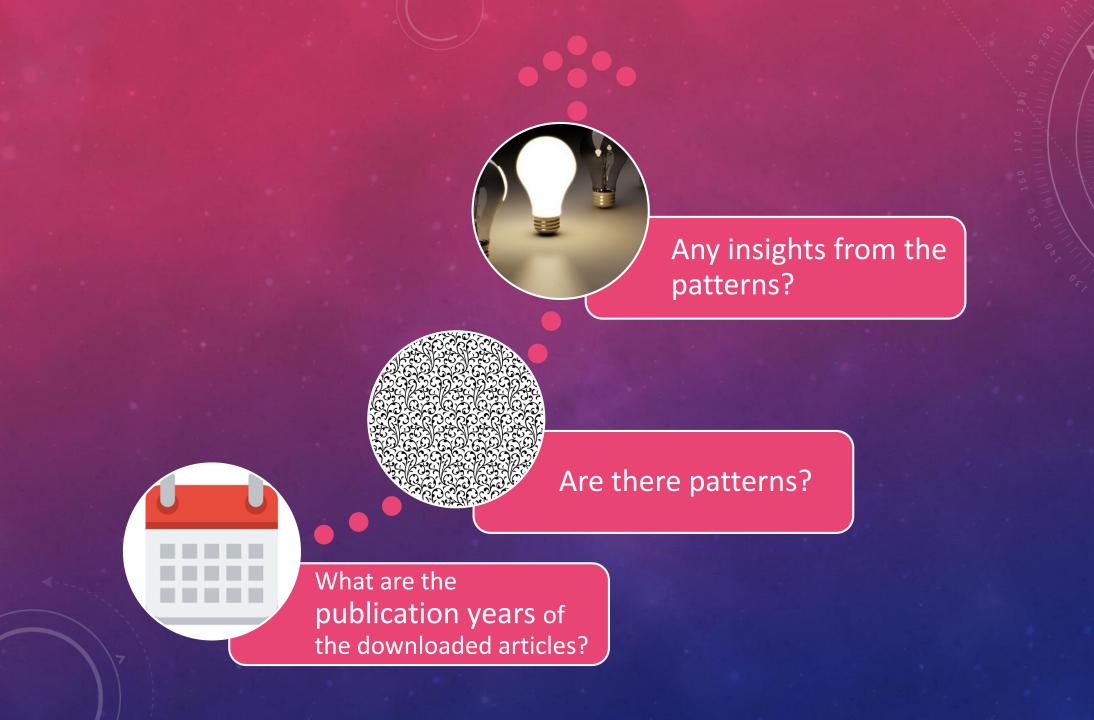
- NASA funded, operated by the California Institute of Technology
- > 6,000 employees
 - Scientists, engineers, technologists, business people
- Focus on unmanned, robotic missions
 - All aspects of engineering
 - Earth and planetary sciences, astronomy
 - Basic sciences



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Number of Successful Full-Text Article Requests by Year-of-Publication (YOP) and Journal									
Publisher	Platform	Article in P	YOP 2017	YOP 2016	YOP 2015	YOP 2014	YOP 2013	YOP 2012	YOP
	ScienceDir	74	1641	13288	6293	4329	3563	3262	
Elsevier	ScienceDir	0	0	0	0	0	0	0	
Elsevier	ScienceDir	0	0	0	0	0	0	0	
Elsevier	ScienceDir	1	43	436	137	142	150	64	
Elsevier	ScienceDir	0	0	0	0	0	0	1	
Elsevier	ScienceDir	0	1	41	11	' 6	22	5	
Elsevier	ScienceDir	0	39	567	213	135	77	86	
Elsevier	ScienceDir	0	0	0	0	0	0	0	
Elsevier	ScienceDir	0	0	28	26	3	12	6	
Elsevier	ScienceDir	0	0	5	0	0	0	0	
Elsevier	ScienceDir	0	8	106	24	12	12	5	
Elsevier	ScienceDir	0	0	0	0	0	0	0	
	Publisher Elsevier Elsevier Elsevier Elsevier Elsevier Elsevier Elsevier Elsevier Elsevier	Publisher Platform ScienceDir Elsevier ScienceDir	Publisher Platform Article in P ScienceDir 74 Elsevier ScienceDir 0 Elsevier ScienceDir 1 Elsevier ScienceDir 0	Publisher Platform Article in P YOP 2017 ScienceDir 74 1641 Elsevier ScienceDir 0 0 Elsevier ScienceDir 1 43 Elsevier ScienceDir 0 0 Elsevier ScienceDir 0 1 Elsevier ScienceDir 0 0 Elsevier ScienceDir 0 0 Elsevier ScienceDir 0 39 Elsevier ScienceDir 0 0 Elsevier ScienceDir 0 0	Publisher Platform Article in P YOP 2017 YOP 2016 ScienceDir 74 1641 13288 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 1 43 436 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 0 1 41 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 0 0 28 Elsevier ScienceDir 0 0 5 Elsevier ScienceDir 0 0 5 Elsevier ScienceDir 0 8 106	Publisher Platform Article in P YOP 2017 YOP 2016 YOP 2015 ScienceDir 74 1641 13288 6293 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 0 0 0 Elsevier ScienceDir 1 43 436 137 Elsevier ScienceDir 0 0 0 0 Elsevier ScienceDir 0 1 41 11 Elsevier ScienceDir 0 0 0 0 Elsevier ScienceDir 0 0 0 0 Elsevier ScienceDir 0 0 28 26 Elsevier ScienceDir 0 0 5 0 Elsevier ScienceDir 0 0 5 0 Elsevier ScienceDir 0 8 106 24	Publisher Platform Article in P YOP 2017 YOP 2016 YOP 2015 YOP 2014 ScienceDir 74 1641 13288 6293 4329 Elsevier ScienceDir 0 0 0 0 Elsevier ScienceDir 0 39 567 213 135 Elsevier ScienceDir 0 0 0 0 0 Elsevier ScienceDir 0 0 28 26 3 Elsevier ScienceDir 0 0 5 0 0 Elsevier ScienceDir 0 0 24 12	Publisher Platform Article in P YOP 2017 YOP 2016 YOP 2015 YOP 2014 YOP 2013 ScienceDir 74 1641 13288 6293 4329 3563 Elsevier ScienceDir 0 0 0 0 0 0 Elsevier ScienceDir 0 0 0 0 0 0 Elsevier ScienceDir 0 0 0 0 0 0 Elsevier ScienceDir 0 1 41 11 6 22 Elsevier ScienceDir 0 39 567 213 135 77 Elsevier ScienceDir 0 0 0 0 0 0 Elsevier ScienceDir 0 0 28 26 3 12 Elsevier ScienceDir 0 0 5 0 0 0 Elsevier ScienceDir 0 8 106 24	Publisher Platform Article in P YOP 2017 YOP 2016 YOP 2015 YOP 2014 YOP 2013 YOP 2012 ScienceDir 74 1641 13288 6293 4329 3563 3262 Elsevier ScienceDir 0 0 0 0 0 0 0 Elsevier ScienceDir 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 6 222 5 5 5 Elsevier ScienceDir 0 0 0 0 0 0 0 0

COUNTER JOURNAL REPORT 5 (JR5)

- Number of successful full-text requests by Year of Publication (YOP) and Journal
- Period covered: Jan 1, 2016 Dec 31,2016
- Total for all journals from publisher
- Breakdown by individual journals and publication year

Journal	Total	Article in P	YOP 2017	YOP 2016	YOP 2015	YOP 2014	YOP 2013	YOP 2012	YOP 2011	YOP 2010
Total for all journals	60244	74	1641	13288	6293	4329	3563	3262	2407	2201
Icarus	12740	0	792	3749	1272	904	585	614	443	513
Remote Sensing of Environme	4415	0	44	1417	534	375	195	286	207	105
Planetary and Space Science	3389	1	10	724	343	445	171	342	98	100
Acta Astronautica	2035	1	43	436	137	142	150	64	122	58
Advances in Space Research	1927	0	39	567	213	135	77	86	157	72
Earth and Planetary Science L	1615	0	60	528	264	158	53	63	67	82
Journal of Volcanology and G	1398	0	2	280	86	18	33	52	34	12
Journal of Quantitative Spect	1361	0	152	369	138	68	85	65	78	65
Geochimica et Cosmochimica	1024	0	19	253	101	61	45	22	22	20
Atmospheric Environment	972	0	9	200	183	75	112	41	67	44
Journal of Power Sources	694	0	15	196	70	35	40	44	35	21
Journal of Molecular Spectros	662	0	6	199	56	40	22	21	12	35
Atmospheric Research	561	0	29	180	94	60	55	40	10	7
Nuclear Instruments and Met	536	0	1	75	43	11	21	25	25	32
Journal of Atmospheric and S	443	n	17	118	74	26	21	27	25	15

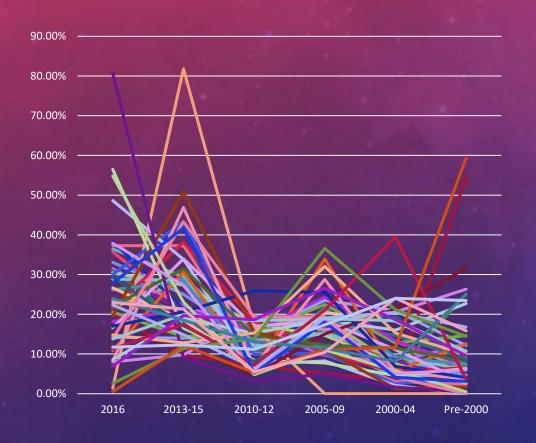
- Calculate total for each journal, then sort by total downloads
- Aggregate by years for fewer data points
- Calculate the aggregated subtotals as percentage

2016 2013-15 2010-12 2005-09 2000-04 Pre-2000

Journal	2016	2013-15	2010-12	2005-09	2000-04	Pre-2000
Total for all journals	24.90%	23.55%	13.06%	16.62%	9.91%	11.96%
Icarus	35.64%	21.67%	12.32%	15.10%	6.24%	9.02%
Remote Sensing of Environmer	33.09%	25.01%	13.54%	14.97%	8.65%	4.73%
Planetary and Space Science	21.69%	28.30%	15.93%	18.80%	7.35%	7.94%
Acta Astronautica	23.59%	21.08%	11.99%	23.93%	13.27%	6.14%
Advances in Space Research	31.45%	22.06%	16.35%	9.70%	7.89%	12.56%
Earth and Planetary Science Le	36.41%	29.41%	13.13%	11.89%	4.46%	4.71%
Journal of Volcanology and Ge	20.17%	9.80%	7.01%	5.15%	3.43%	54.43%
Journal of Quantitative Spectro	38.28%	21.38%	15.28%	14.70%	7.64%	2.72%
Geochimica et Cosmochimica	26.56%	20.21%	6.25%	16.50%	5.37%	25.10%
Atmospheric Environment	21.50%	38.07%	15.64%	15.02%	7.82%	1.95%
Journal of Power Sources	30.40%	20.89%	14.41%	23.63%	8.50%	2.16%
Journal of Molecular Spectrosc	30.97%	17.82%	10.27%	17.52%	14.65%	8.76%
Atmospheric Research	37.25%	37.25%	10.16%	9.98%	3.03%	2.32%
Nuclear Instruments and Meth	14.18%	13.99%	15.30%	23.51%	20.90%	12.13%
Journal of Atmospheric and Sol	30.47%	27.31%	17.38%	14.67%	7.45%	2.71%
Procedia Engineering	1.42%	81.80%	16.78%	0.00%	0.00%	0.00%

Lost in spreadsheets

Graph them

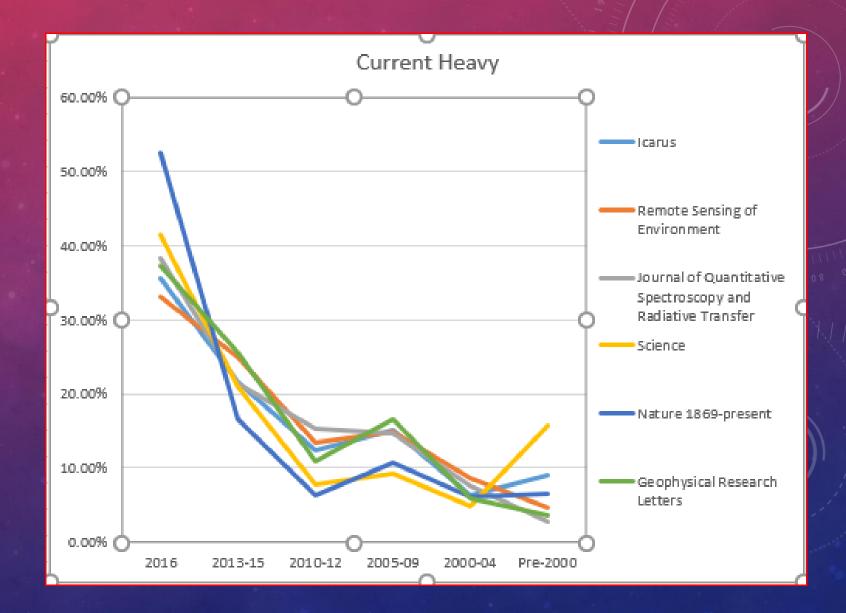


Looking for patterns

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Journal of Atmospheric and Sol	30.47%	27.31%	17.38%	14.67%	7.45%	2.71%
Procedia Engineering	1.42%	81.80%	16.78%	0.00%	0.00%	0.00%
Journal of Chromatography A	8.02%	9.77%	19.30%	16.04%	20.55%	26.32%
Journal of Hydrology	28.83%	28.57%	11.95%	15.32%	9.35%	5.97%
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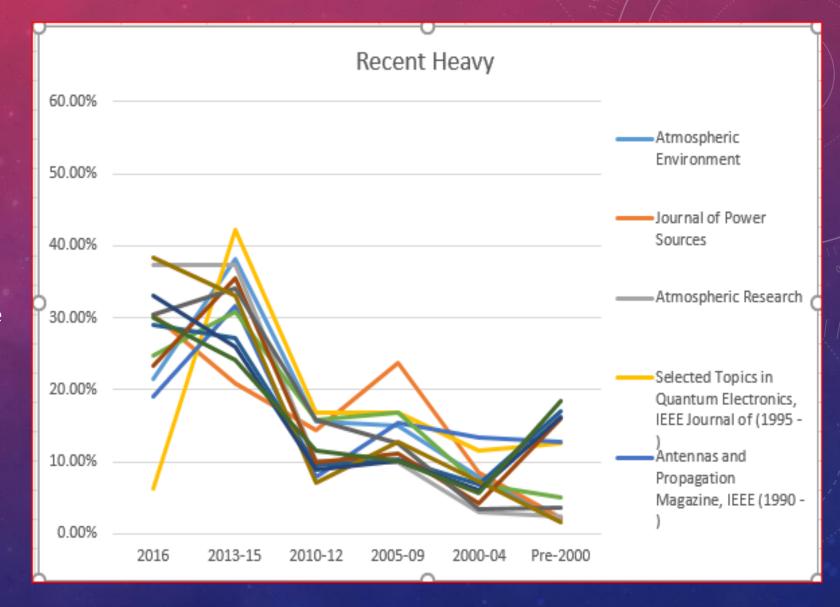
CURRENT HEAVY

- Current year (2016) use is > 30%
 - Nature: current year more than 50%
- Current year is >10% than previous 3 years



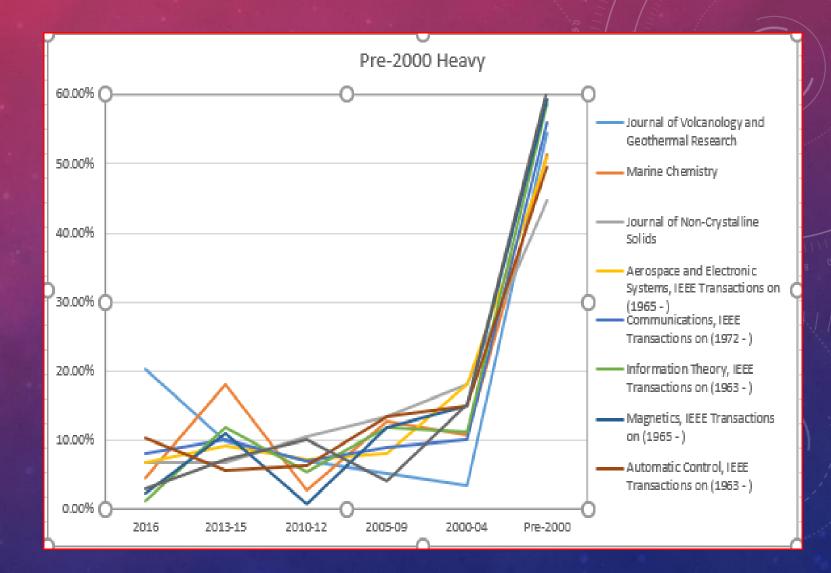
RECENT HEAVY

- Current year plus 3 (2013-2016) usage is > 50% of total
- Two subpatterns:
 - Current < past 3:
 - Curent and past 3 at same level



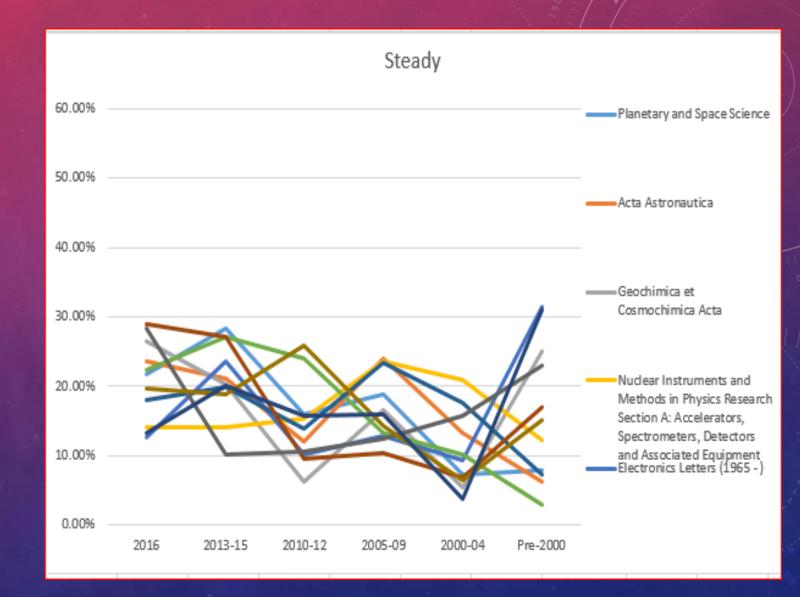
PRE-2000 HEAVY

Pre-2000 downloads >40% of total



STEADY

Every category is less than 30% of total



SOME DETAILS

- Titles featured all have at least 200 downloads in 2016
- Names and definitions of the patterns can be further refined
- All graphs done with Excel
- Some journals can fit into more than one category: current/recent heavy
- Most journals across years have same/similar pattern

INSIGHTS & FURTHER STUDIES

- Used for collection management, communication with management
- Embargoed titles: need direct subscription for the Current Heavy titles
- Back files: negotiate for trial period then decide
- Potential for sharing with other data scientists
- Next: Turn-away reports by publication year
- Same journal at different institutions: same pattern?
- Patterns for social sciences and humanities journals?

